The local adsorption structure of SO_2 on Ni(111): a normal incidence X-ray standing wavefield determination
G.J. Jackson, J. Lüdecke, S.M. Driver, D.P. Woodruff, R.G. Jones, A. Chan and B.C.C. Cowie 223

Monte Carlo simulation of hysteresis behaviour of CO oxidation on surfaces
R. Chakarova 234

Spectromicroscopy and thermal evolution of an Ag + Au/Si(111) bimetallic interface
A. Kolmakov, S. Günther, J. Kovac, M. Marsi, L. Casalis, K. Kaznacheev and M. Kiskinova 241

The surface stoichiometry of $VC_{0.80}$(100) studied by LEED
J. Rundgren, Y. Gauthier and L.I. Johansson 251

Restructuring of the vicinal Cu(997) surface
M. Giesen, U. Linke and H. Ibach 264

Thermal decomposition of trimethylamine on Pt(111): spectroscopic identification of surface intermediates
W. Erley, R. Xu and J.C. Hemminger 272

Many-body effects for H chemisorbed on narrow-band transition metals
I.G. Medvedev 287

Carbon-60 induced structures on the clean and oxygen covered Cu(110) surface: competitive adsorption
M.Ø. Pedersen, P.W. Murray, E. Lægsgaard, I. Stensgaard and F. Besenbacher 300

Spin polarization of vanadium overlayers on a semi-infinite tantalum substrate
T. Khajil and J. Khalifeh 310

Growth and structure of ultrathin Mn films on Fe(001)
R. Pfandzelter, T. Igel and H. Winter 317

Monolayers of tetrachloro-thioindigo and thioindigo in the STM: orientational disorder and the absence of photochromism
J. Petersen, R. Strohmaier, B. Gompf and W. Eisenmenger 329

Comparison of reflection high-energy electron diffraction and low-energy electron diffraction using high-resolution instrumentation
B. Müller and M. Henzler 338

Investigation of the $SrTiO_3$ (110) surface by means of LEED, scanning tunneling microscopy and Auger spectroscopy
J. Brunen and J. Zegenhagen 349

Growth and surface alloying of Al on Au(111) at room temperature
B. Fischer, J.V. Barth, A. Fricke, L. Nedelmann and K. Kern 366

Monte Carlo study on formation of periodic structures on Si(111) surfaces
T. Watanabe, T. Hoshino and I. Ohdomari 375

Ar^+ ion-impact desorption of Au and Cu from the Si(111)-$\sqrt{3} \times \sqrt{3}$-(Au, Cu) surface
D. Ishikawa, J. Yuhara, K. Soda and K. Morita 382

Errata 391

Author index 395

Subject index 398

Materials index 403